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(12) **United States Design Patent** (10) **Patent No.:** **US D982,861 S**  
**Mercier** (45) **Date of Patent:** **\*\* Apr. 4, 2023**

(54) **LATCH FOR A FILTERING DEVICE**

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(57) **CLAIM**

(73) Assignee: **iRobot Corporation**, Bedford, MA (US)

The ornamental design for a latch for a filtering device, substantially as shown and described.

(\*\*) Term: **15 Years**

**DESCRIPTION**

(21) Appl. No.: **29/798,364**

(22) Filed: **Jul. 7, 2021**

(51) **LOC (14) Cl.** ..... **15-05**

(52) **U.S. Cl.**  
USPC ..... **D32/30**

(58) **Field of Classification Search**  
USPC ..... 15/347; D15/61, 99; D32/25, 30, 31;  
D9/249; D8/373, 349, 354, 366, 371;  
D25/68, 99

(Continued)

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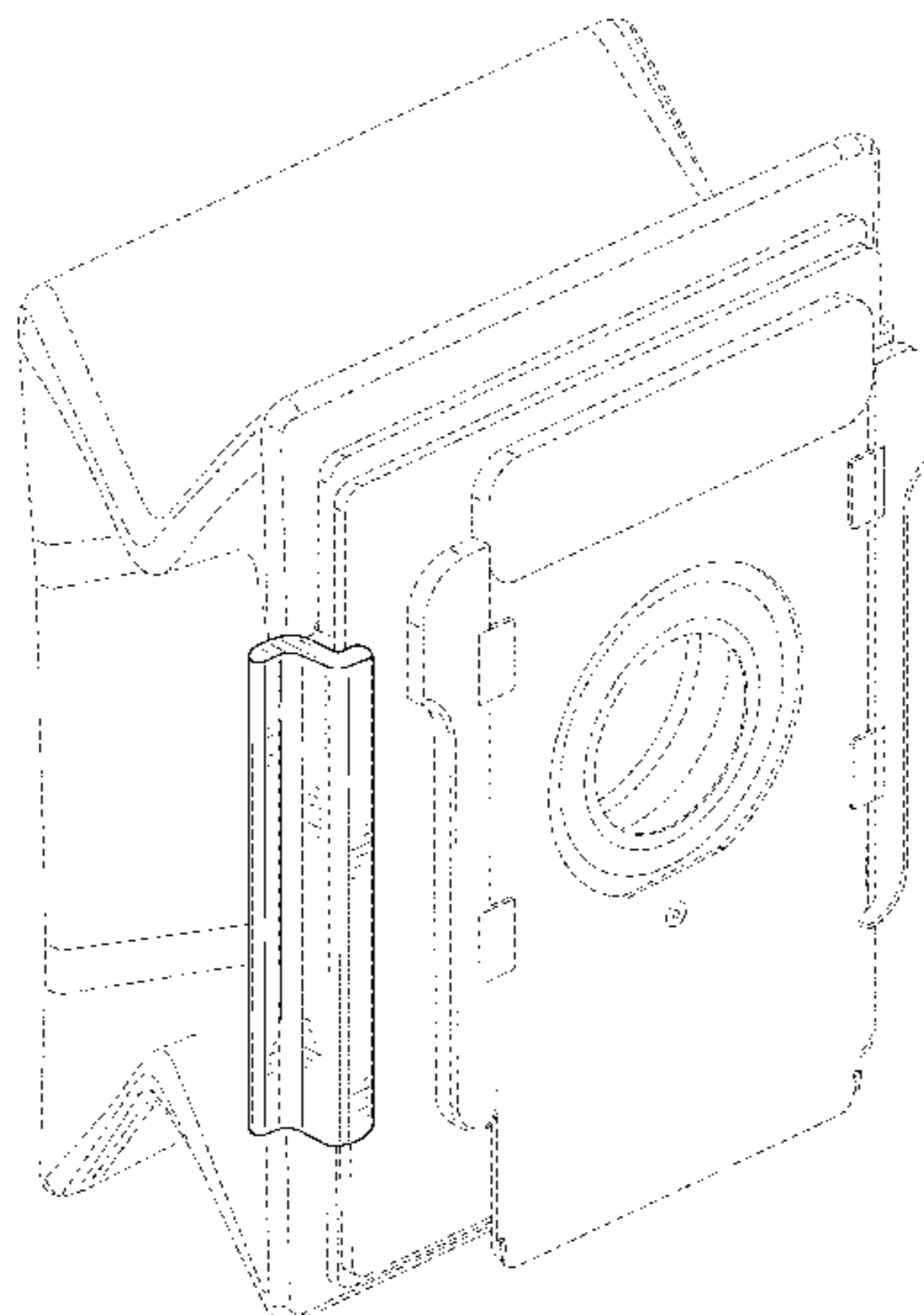
hainafaster.com Folding Flat L Shaped Stainless Steel <https://www.hainafaster.com/Folding-Flat-L-Shaped-Stainless-Steel-304-Support-Microwave-Shelf-Angle-Corner-Bracket-for-Glass-pd46044884.html> (Year: 2023).\*

(Continued)

FIG. 1 is a left perspective view of the latch.  
FIG. 2 is a front view thereof.  
FIG. 3 is a back view thereof.  
FIG. 4 is a right side view thereof.  
FIG. 5 is a left side view thereof.  
FIG. 6 is a top view thereof.  
FIG. 7 is a bottom view thereof.  
FIG. 8 is a right perspective view thereof.  
FIG. 9 is a left perspective view of the latch, with the interface assembly in a closed state.  
FIG. 10 is a front view thereof.  
FIG. 11 is a back view thereof.  
FIG. 12 is a right side view thereof.  
FIG. 13 is a left side view thereof.  
FIG. 14 is a top view thereof.  
FIG. 15 is a bottom view thereof.  
FIG. 16 is a right perspective view thereof.  
FIG. 17 is a right-front perspective view of the latch, with the interface assembly in an open state.  
FIG. 18 is a front view thereof.  
FIG. 19 is a back view thereof.  
FIG. 20 is a right side view thereof.  
FIG. 21 is a left side view thereof.  
FIG. 22 is a top view thereof.  
FIG. 23 is a bottom view thereof.  
FIG. 24 is a right-rear perspective view thereof; and,  
FIG. 25 is a left-rear perspective view thereof.

The broken lines in FIGS. 1-8 show a filtering device including a debris bag and an interface assembly. The broken lines in FIGS. 9-25 show the interface assembly without the debris bag. The broken lines are included for the

(Continued)



purpose of illustrating environmental features of the latch that form no part of the claimed design.

**1 Claim, 21 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... A47L 5/28; A47L 9/1427; A47L 9/1436;  
 A47L 9/1445; A47L 9/00; A47L 9/14;  
 B01D 29/13; B01D 29/23; B01D  
 46/0005; A47F 5/00; E04B 1/2608; E04B  
 1/2612; E04B 1/2604; E04B 1/2403;  
 E04B 1/1903; E04B 1/24; E04B 1/41;  
 E04B 1/4185; E04B 2/825; E04B 2/8617;  
 E04B 2/767

See application file for complete search history.

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Etsy.com [online], "Reusable iRobot clean base dirt disposal bag," Jul. 8, 2021, retrieved on Sep. 29, 2021, retrieved from URL<[https://www.etsy.com/listing/1027118060/reusable-irobot-clean-base-dirt-disposal?ga\\_order=most\\_relevant&ga\\_search\\_type=all&ga\\_view\\_type=gallery&ga\\_search\\_query=reusable+irobot+bag&ref=sr\\_gallery-1-2&pro=1&frs=1](https://www.etsy.com/listing/1027118060/reusable-irobot-clean-base-dirt-disposal?ga_order=most_relevant&ga_search_type=all&ga_view_type=gallery&ga_search_query=reusable+irobot+bag&ref=sr_gallery-1-2&pro=1&frs=1)>, 13 pages.

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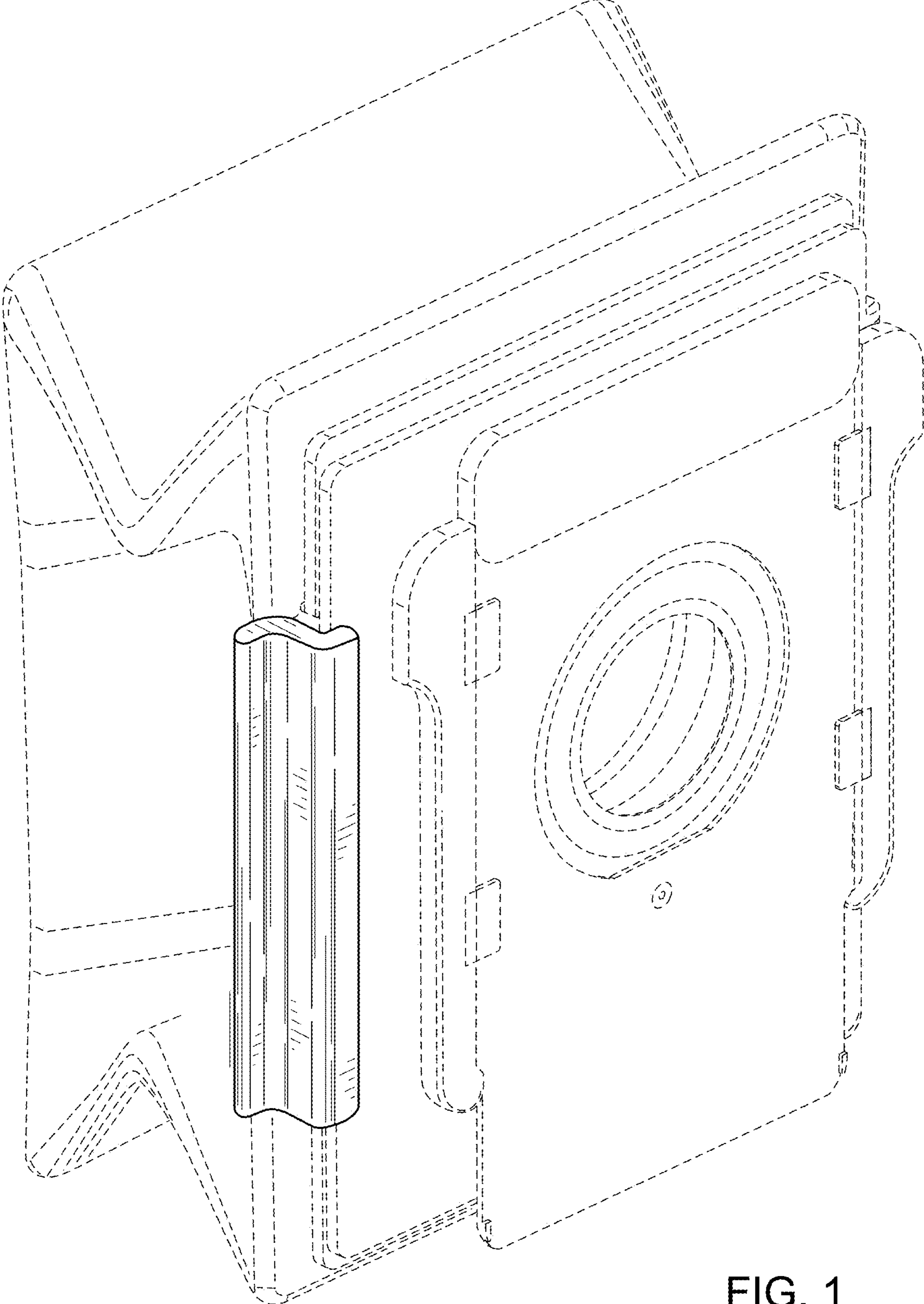


FIG. 1

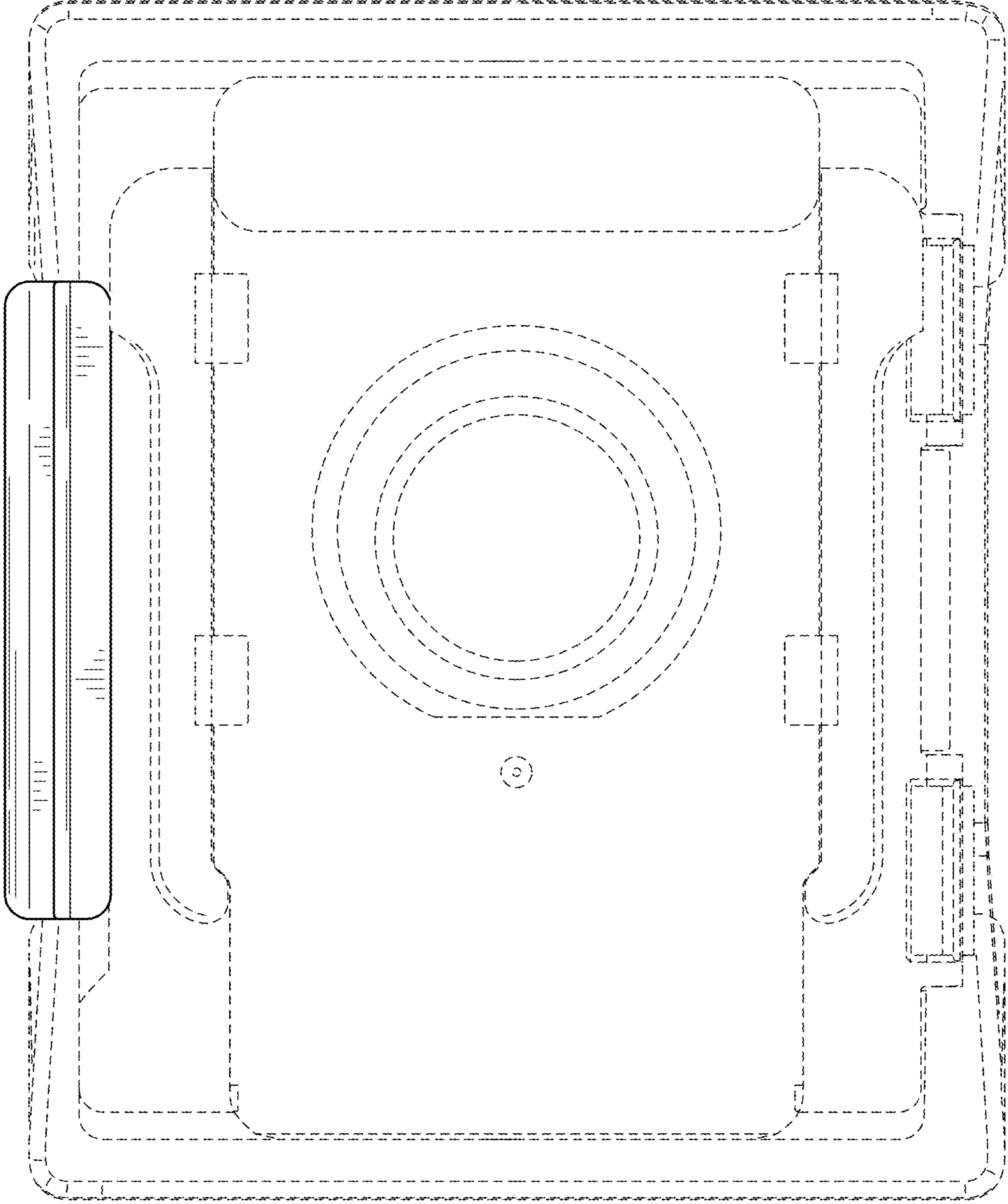


FIG. 2

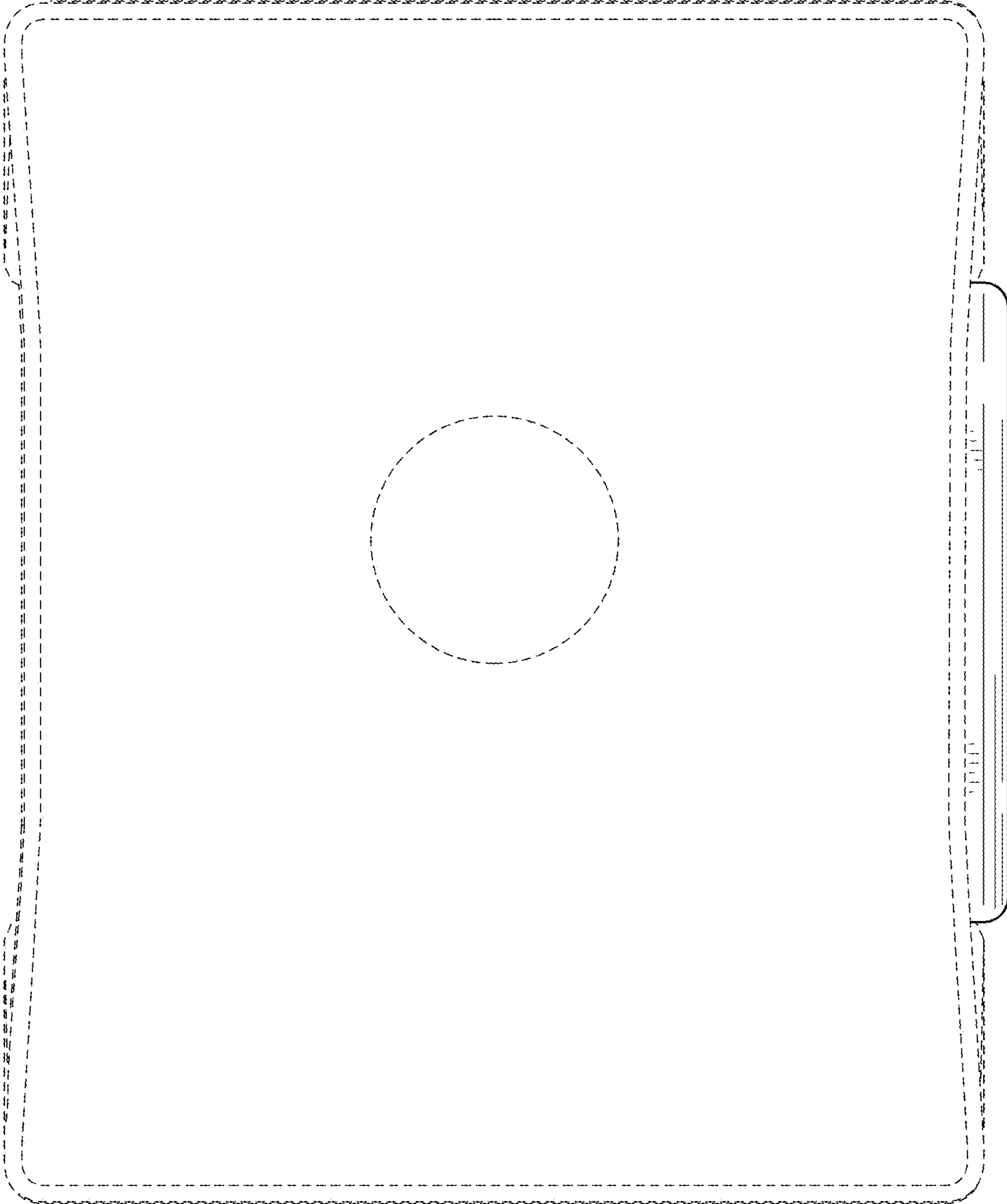


FIG. 3

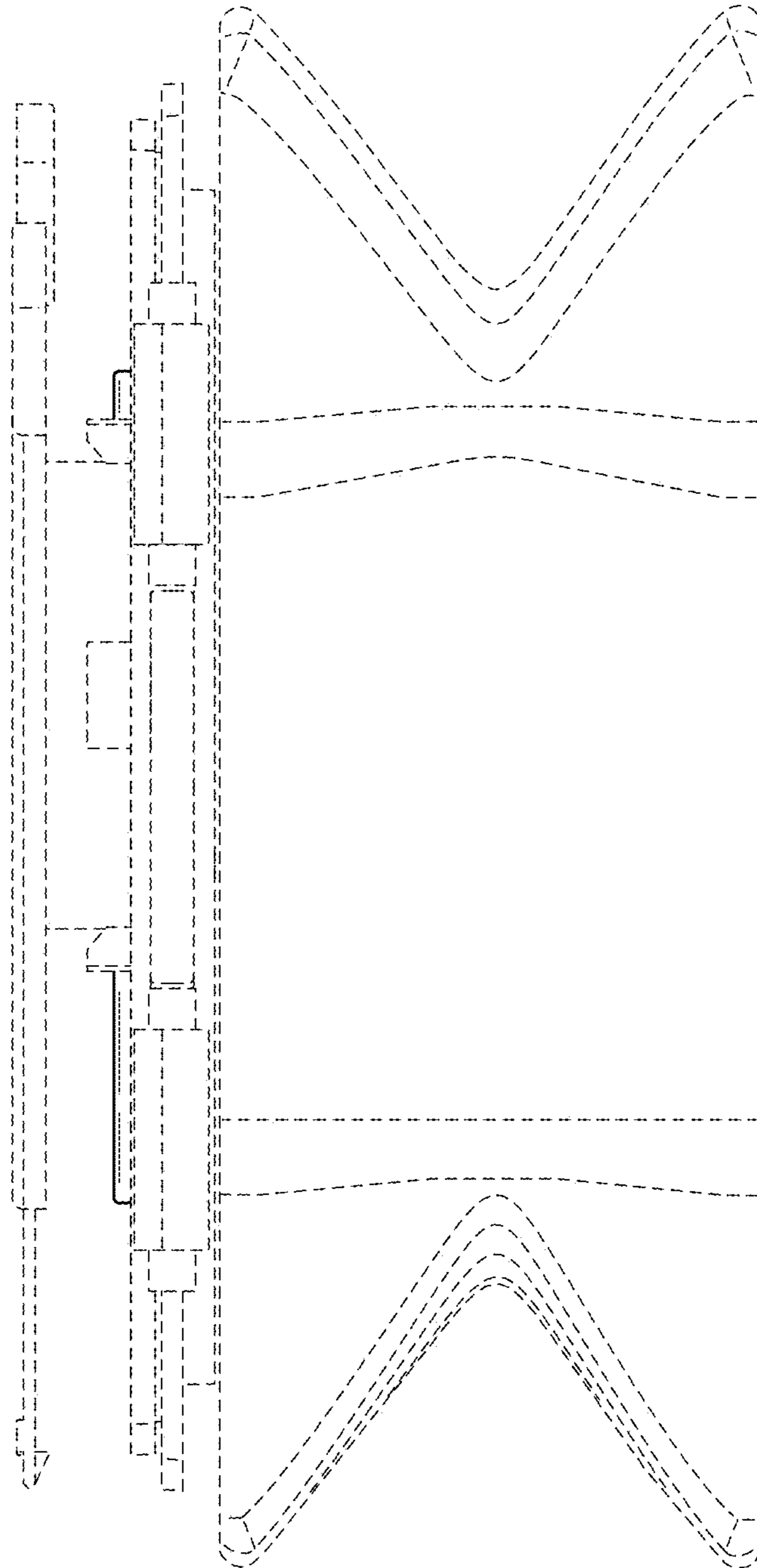


FIG. 4

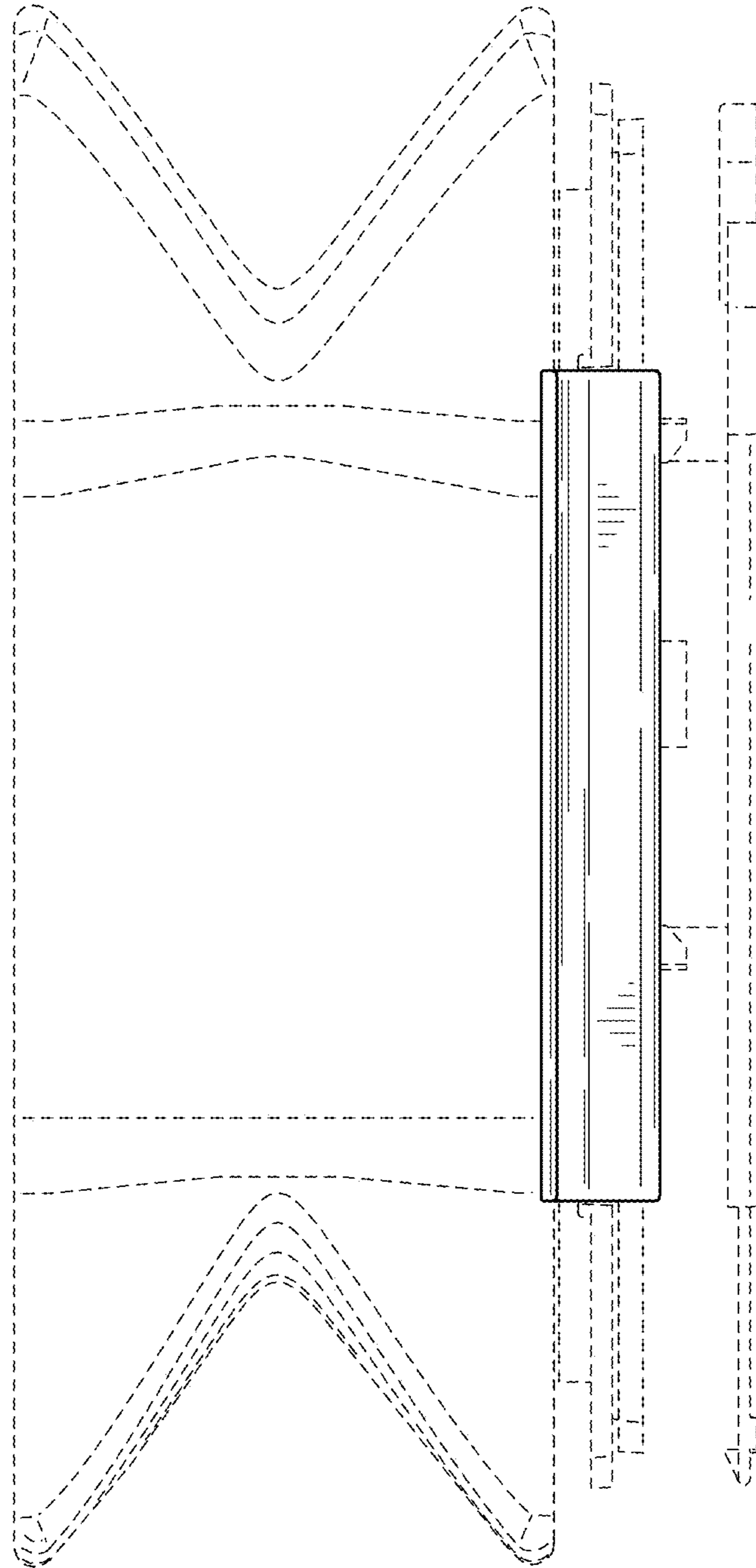


FIG. 5

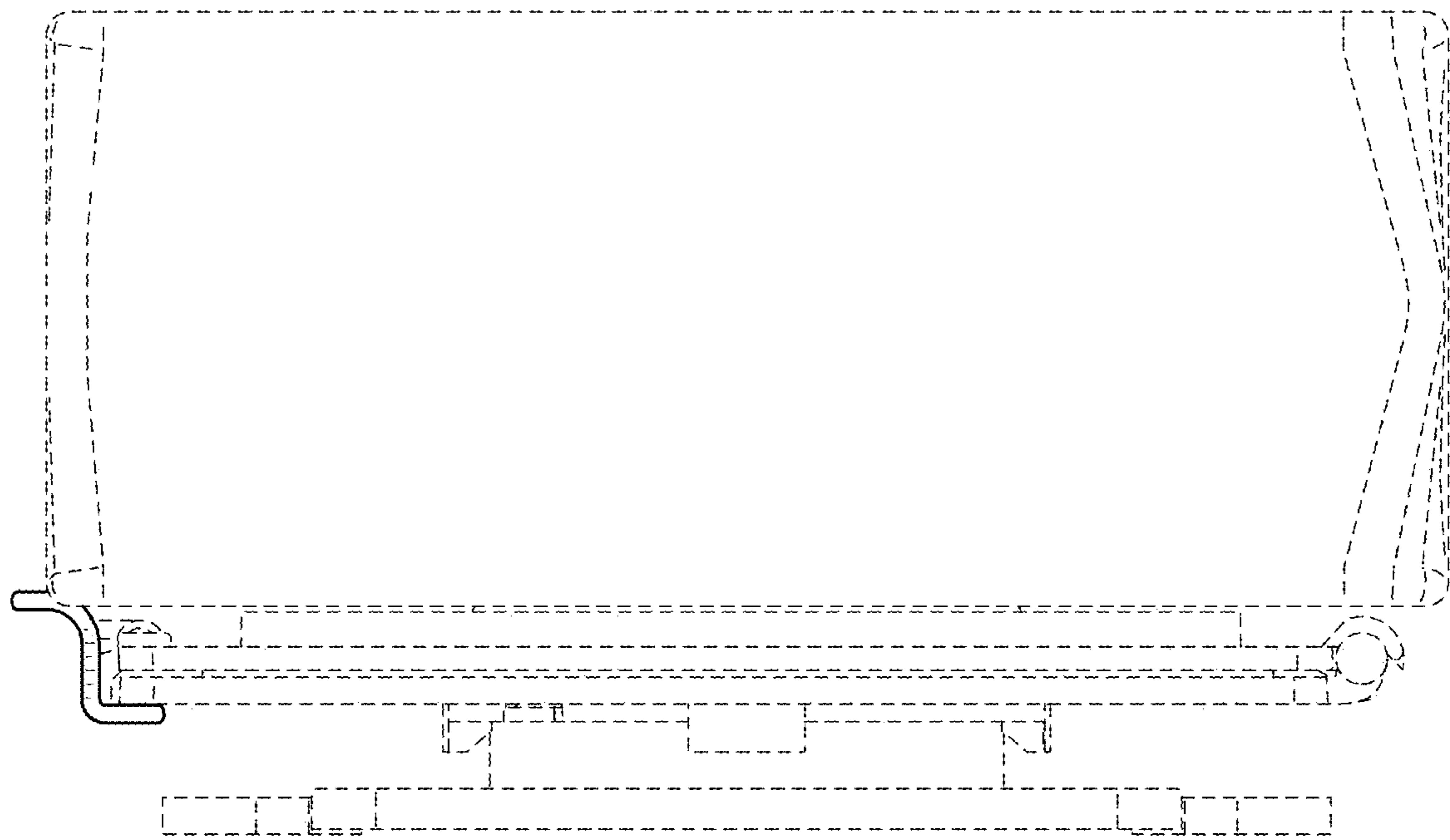


FIG. 6



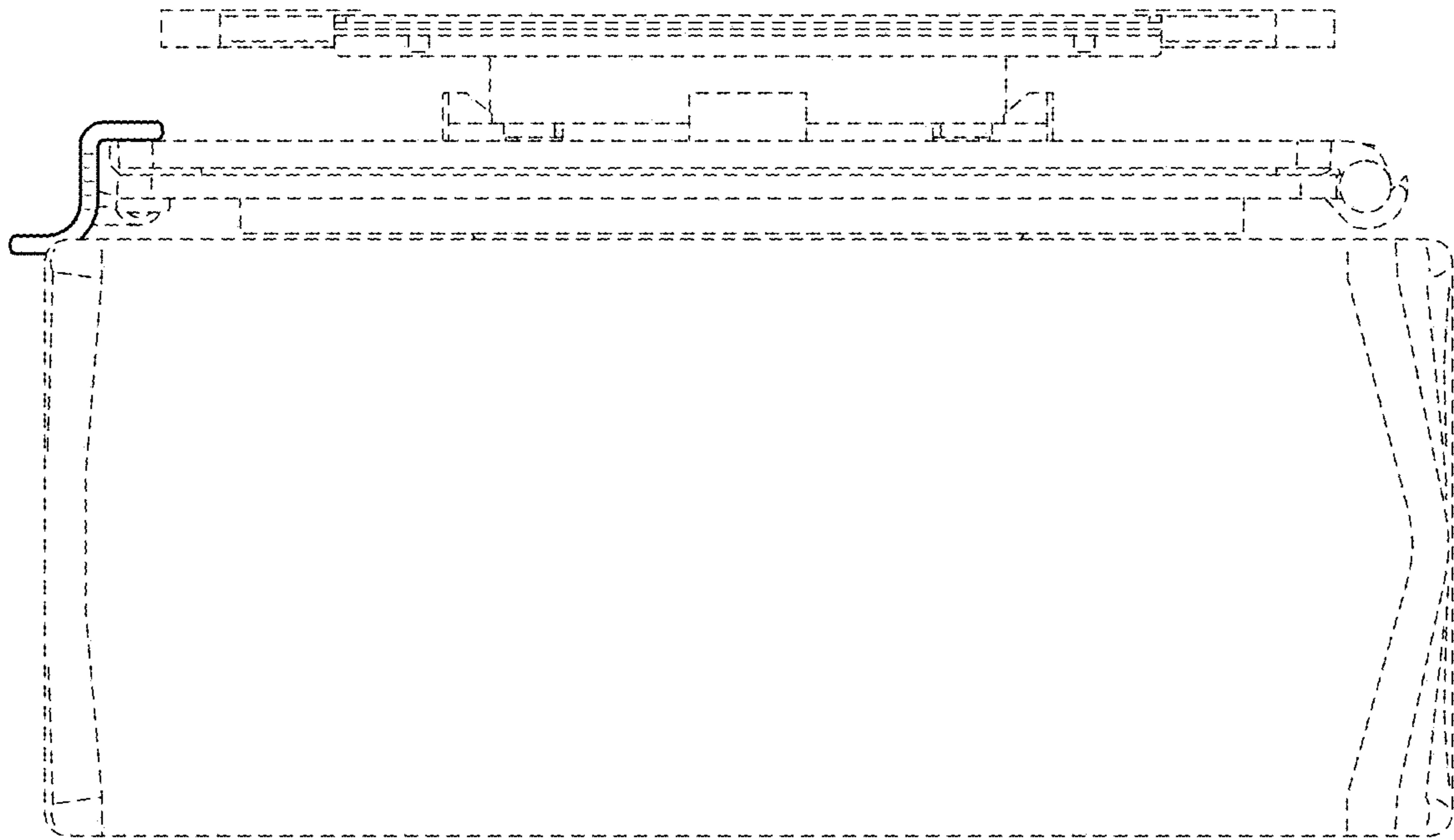


FIG. 7

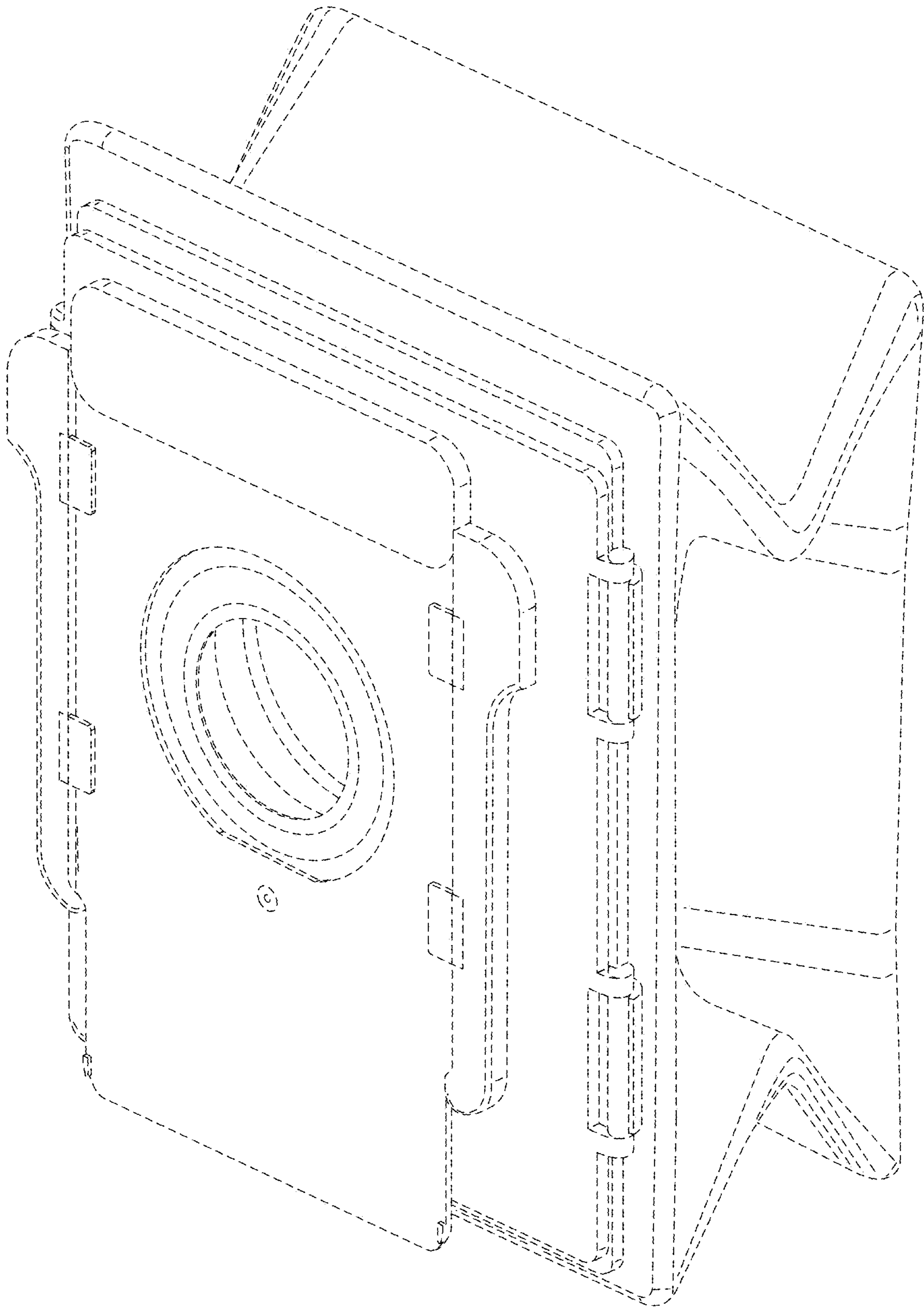


FIG. 8

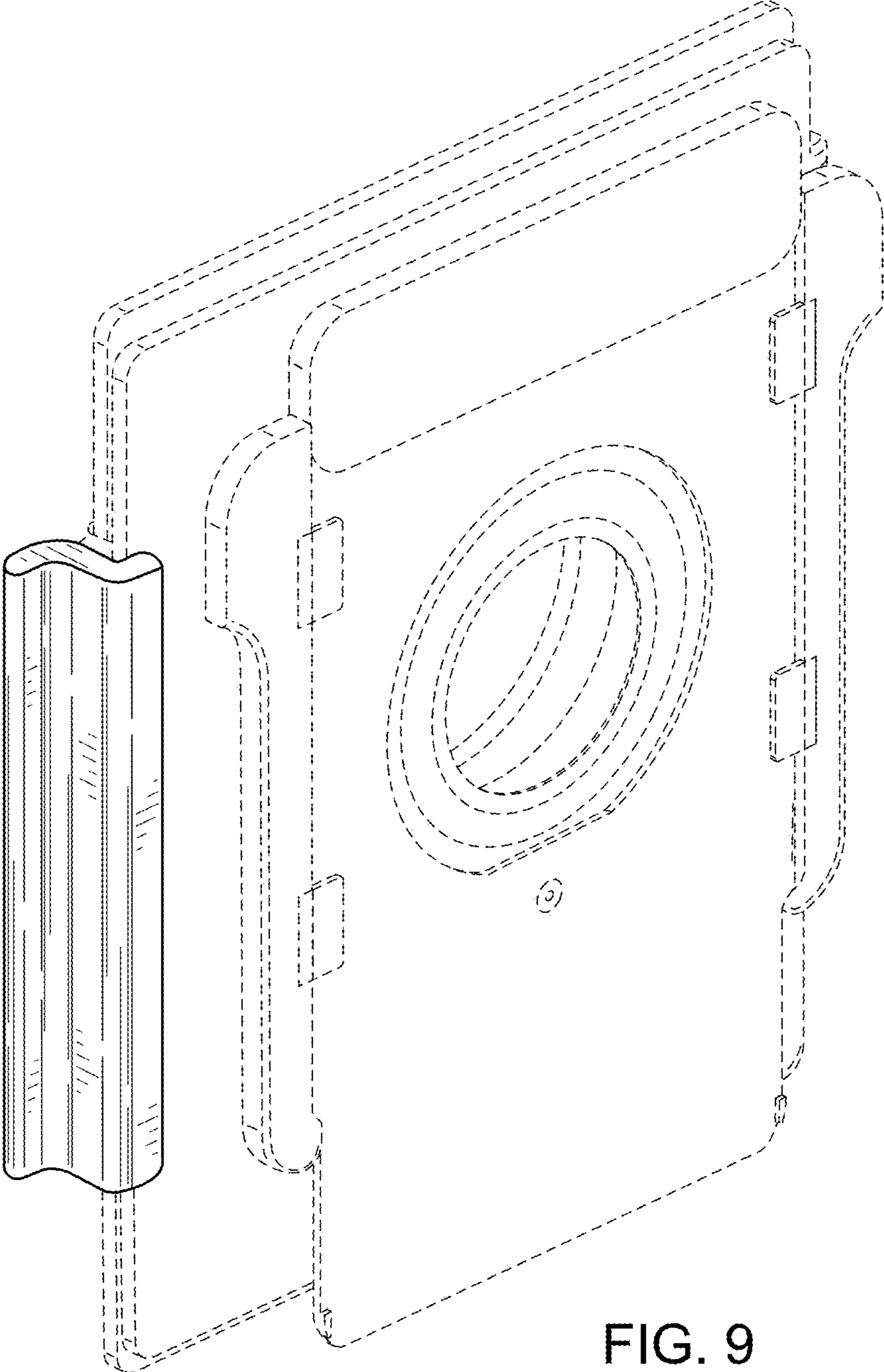


FIG. 9

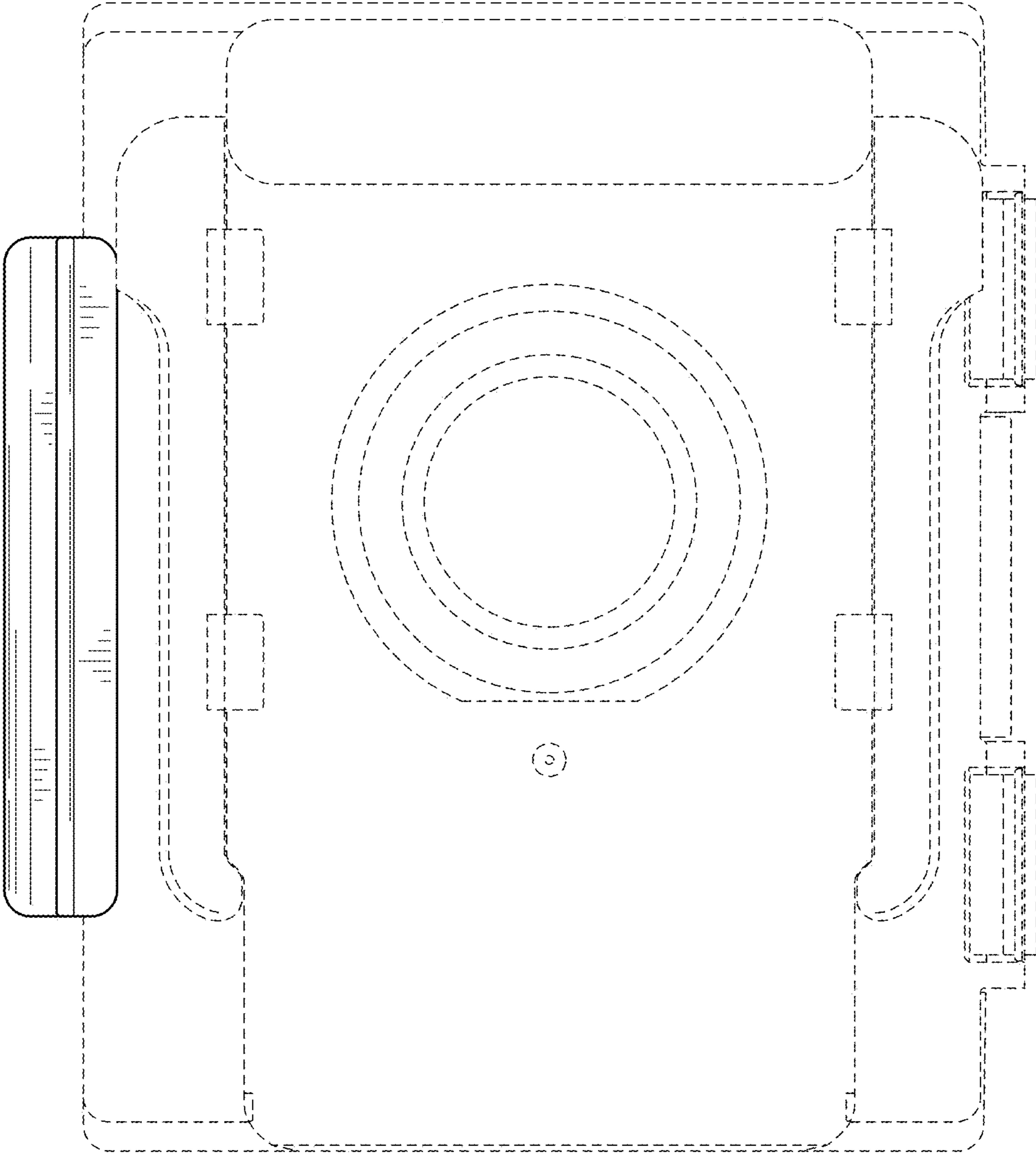


FIG. 10

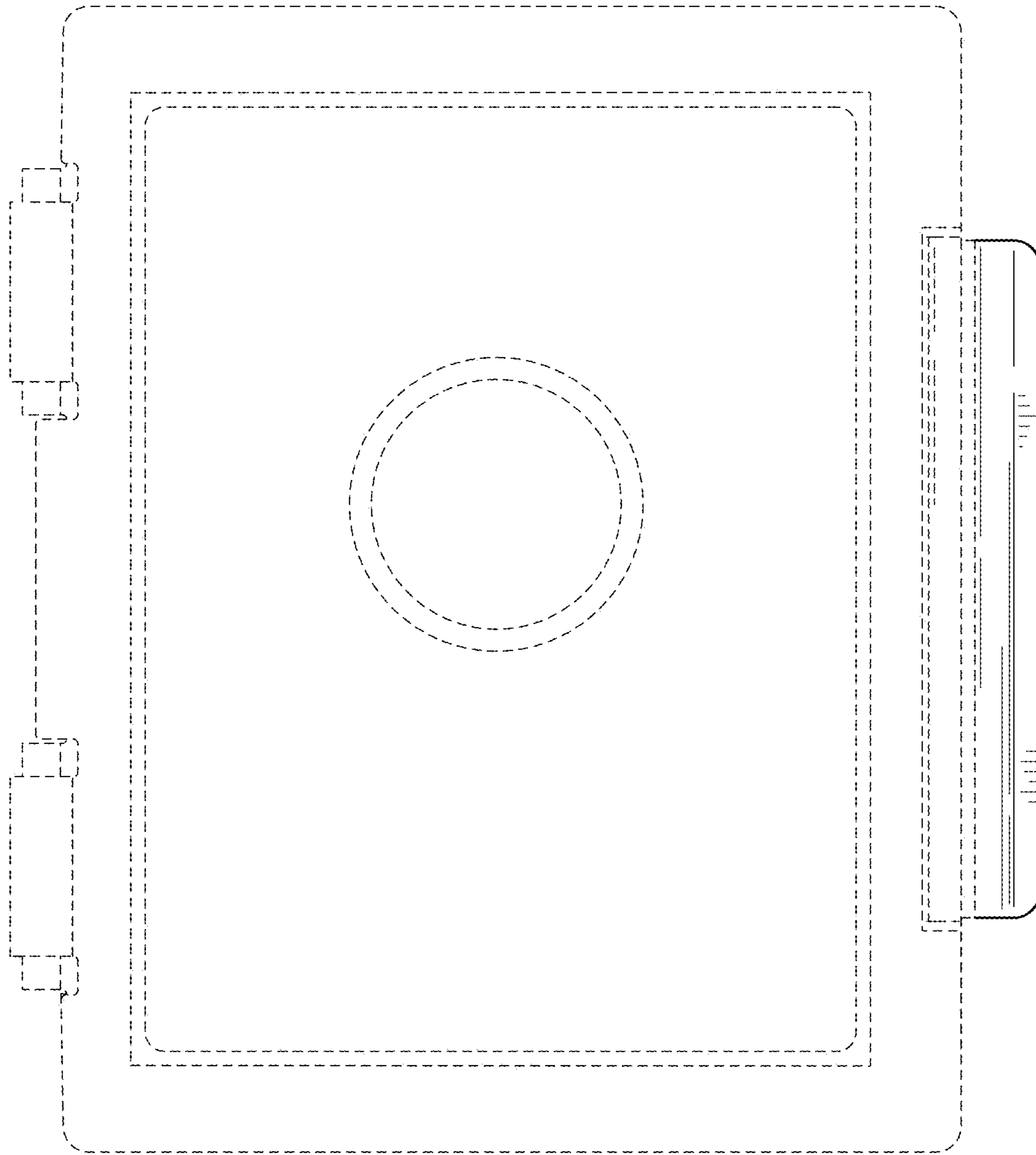


FIG. 11

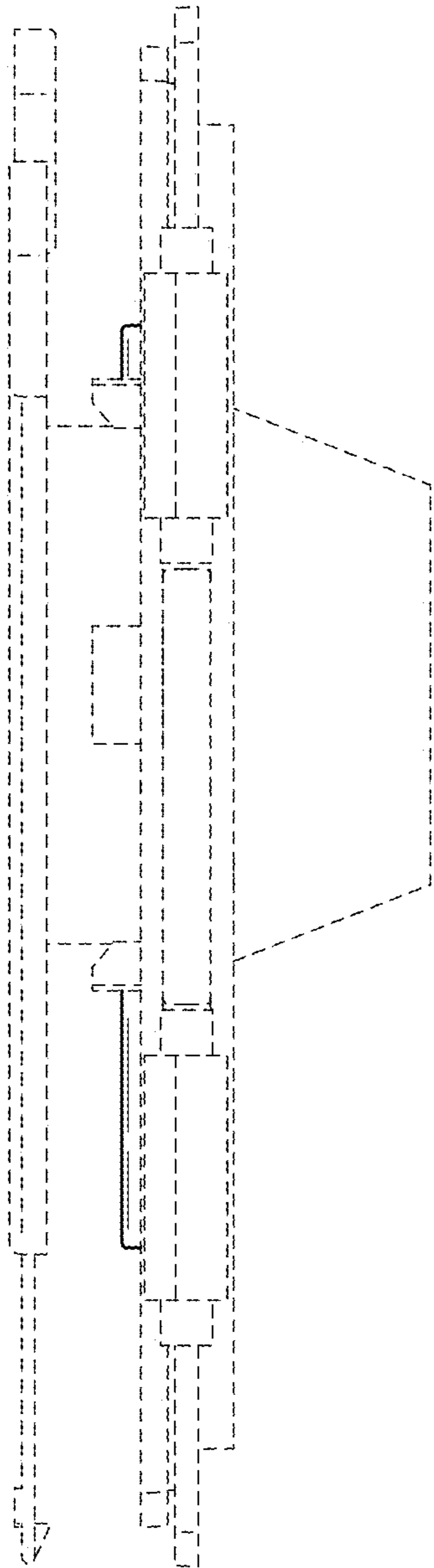


FIG. 12

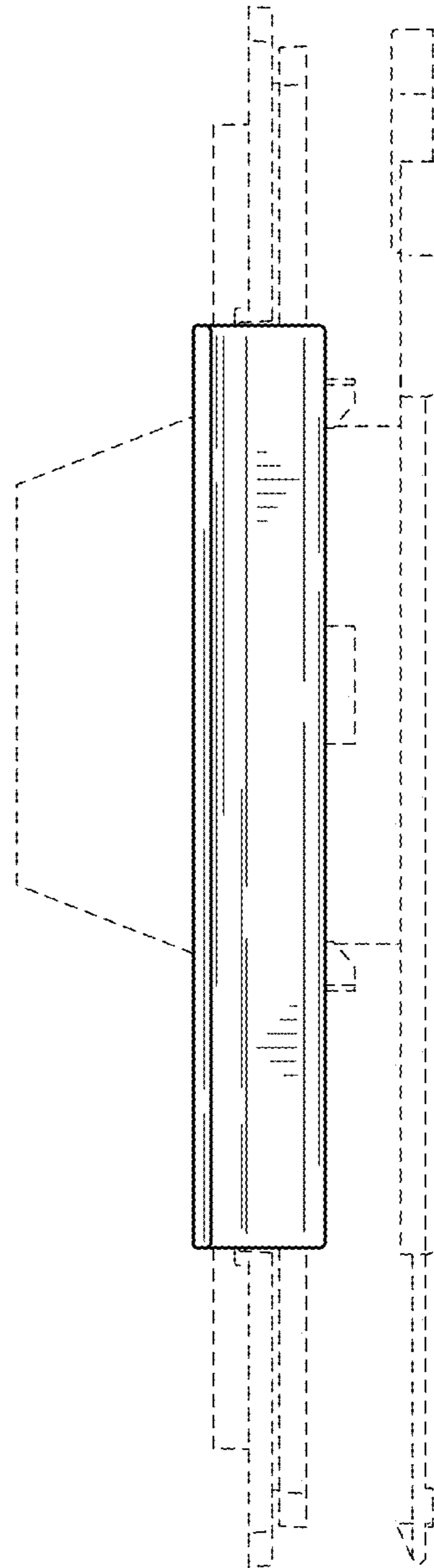


FIG. 13

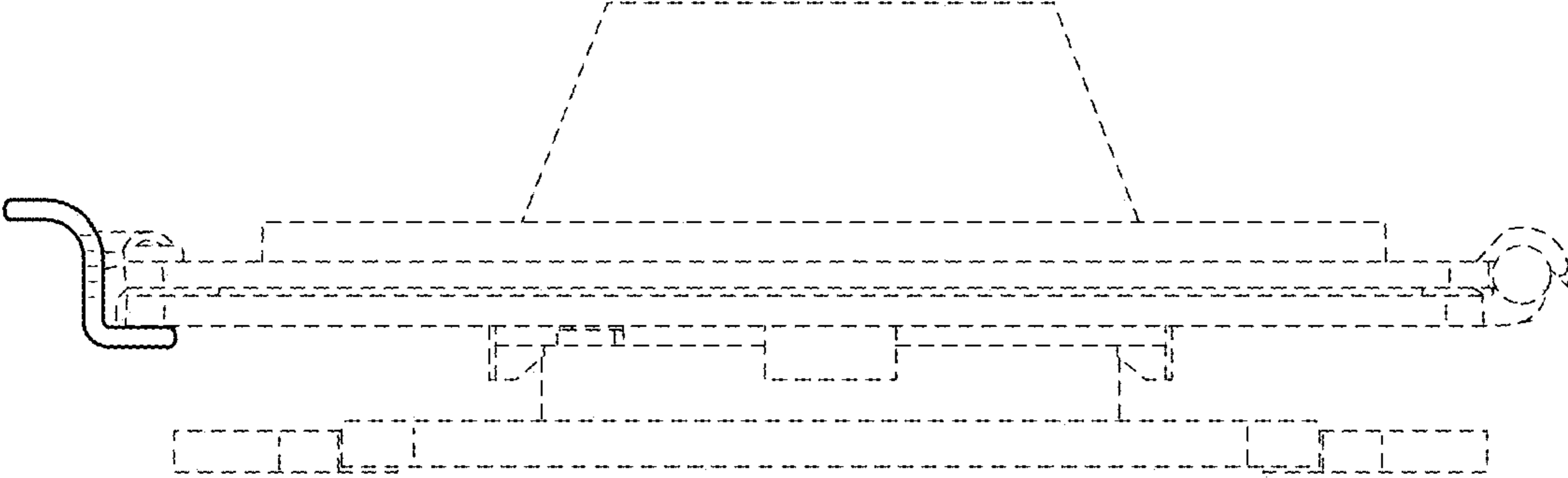


FIG. 14



FIG. 15

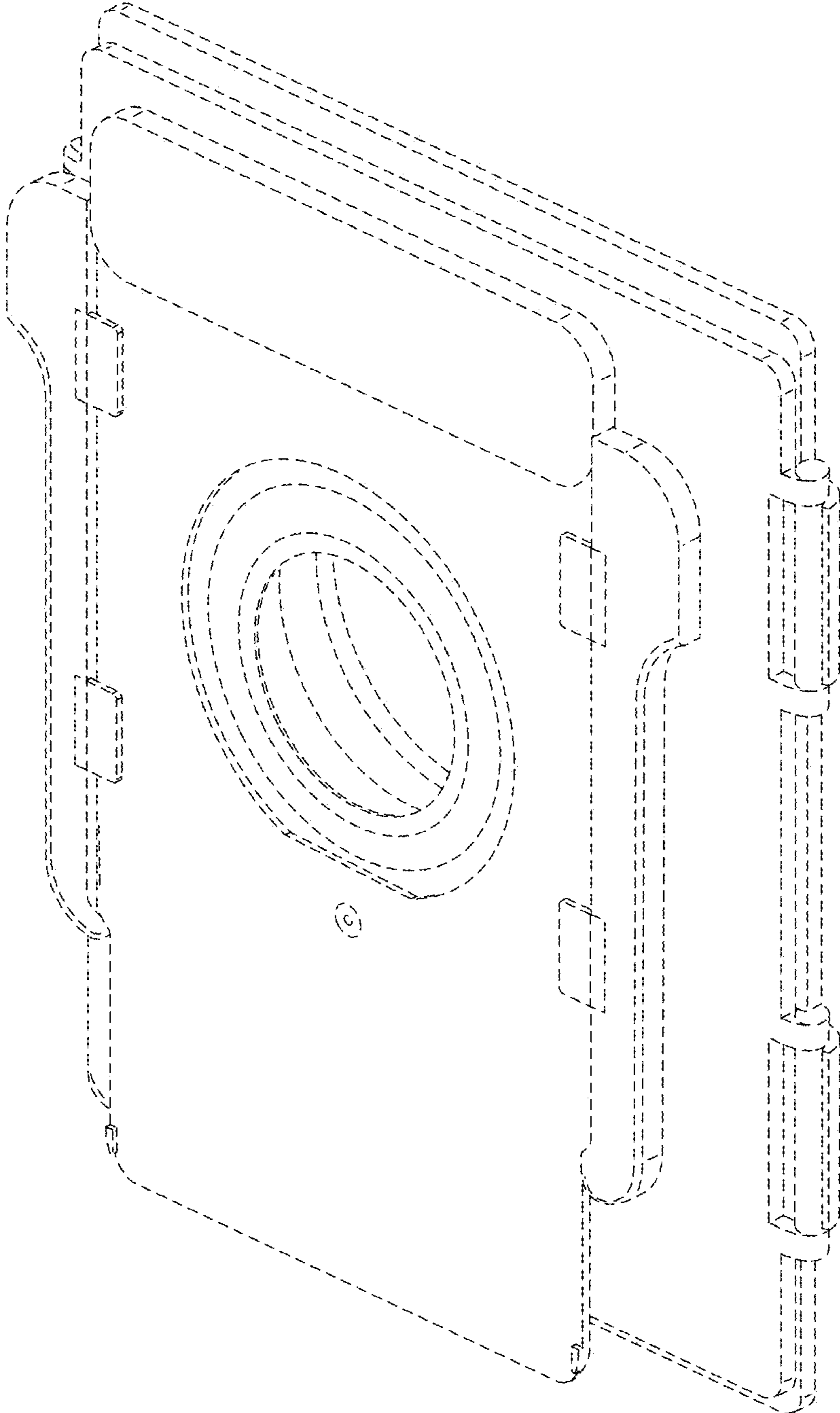


FIG. 16



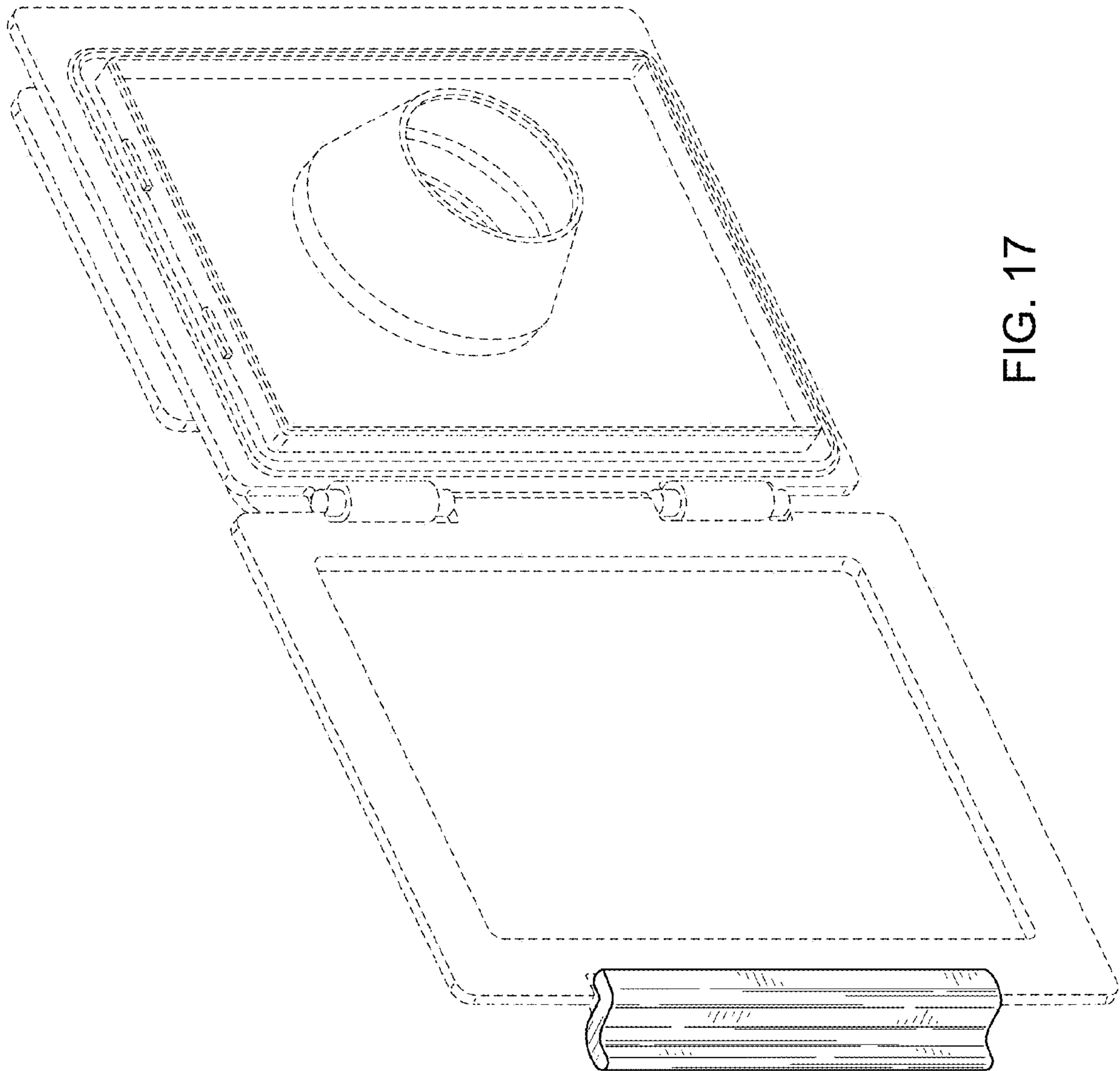


FIG. 17

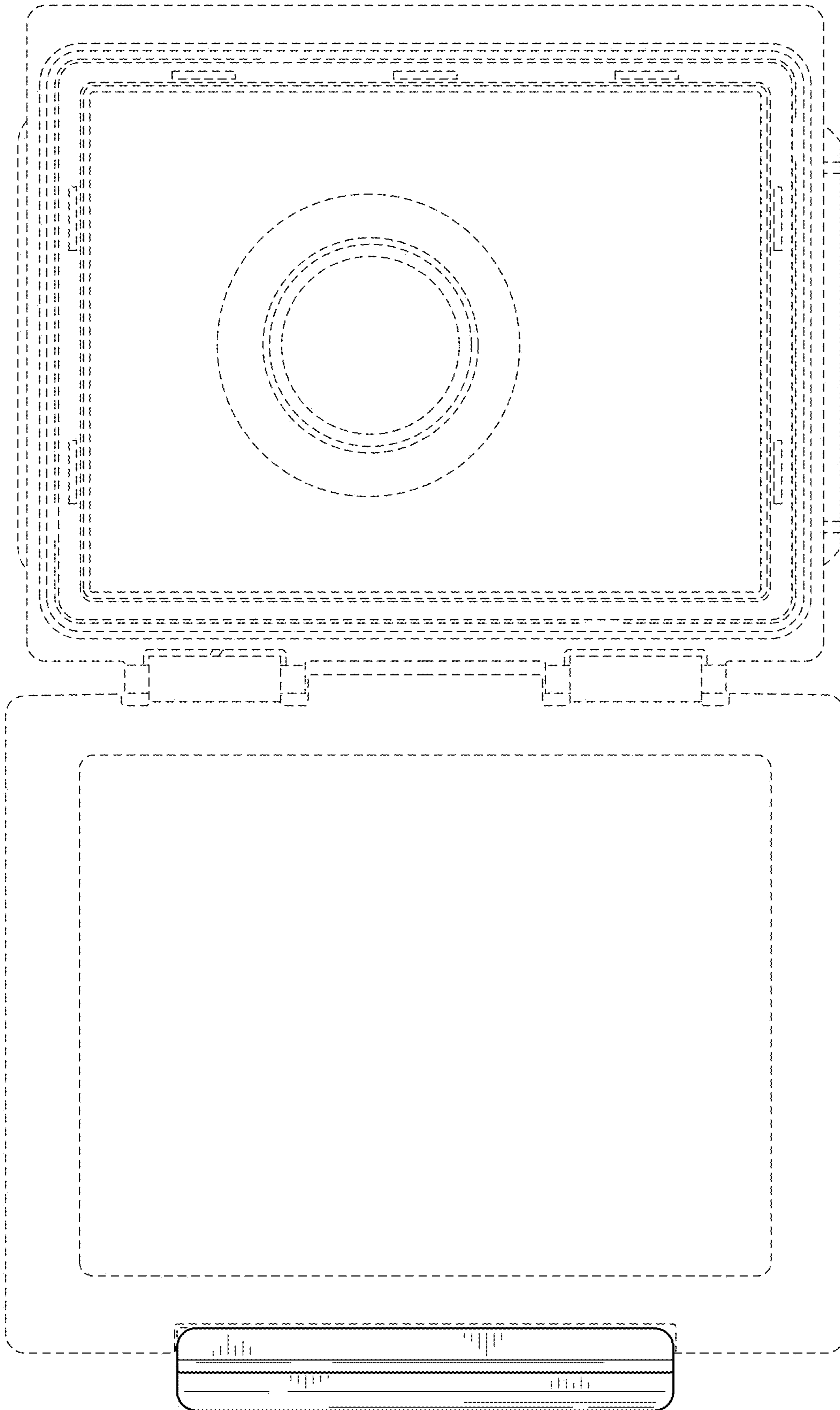


FIG. 18

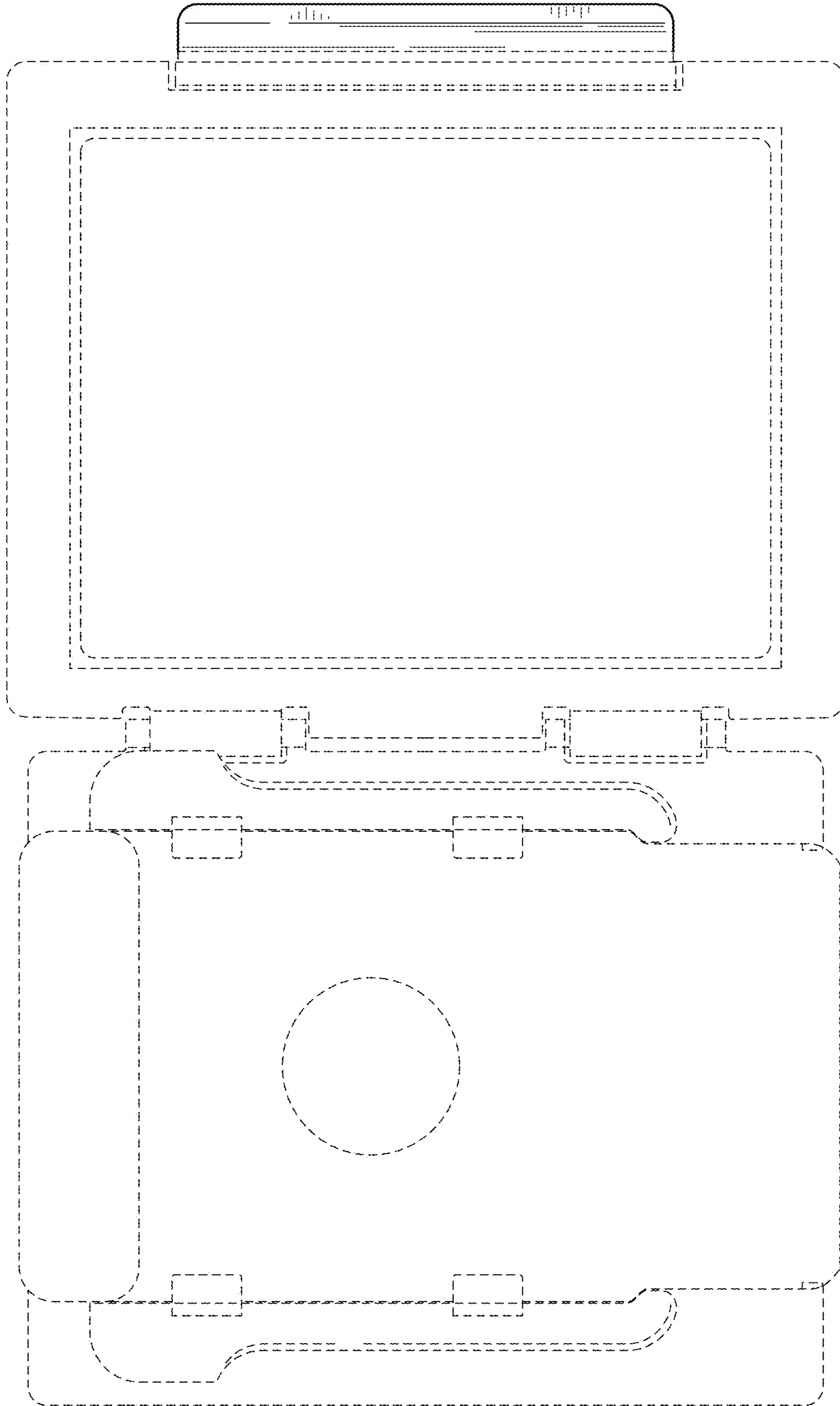


FIG. 19

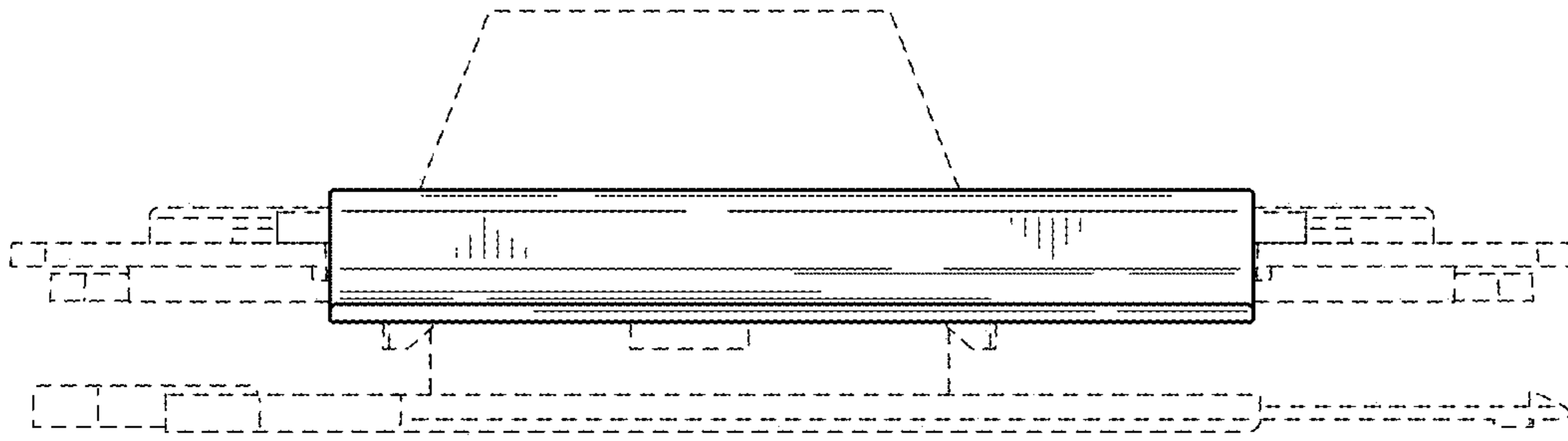


FIG. 21

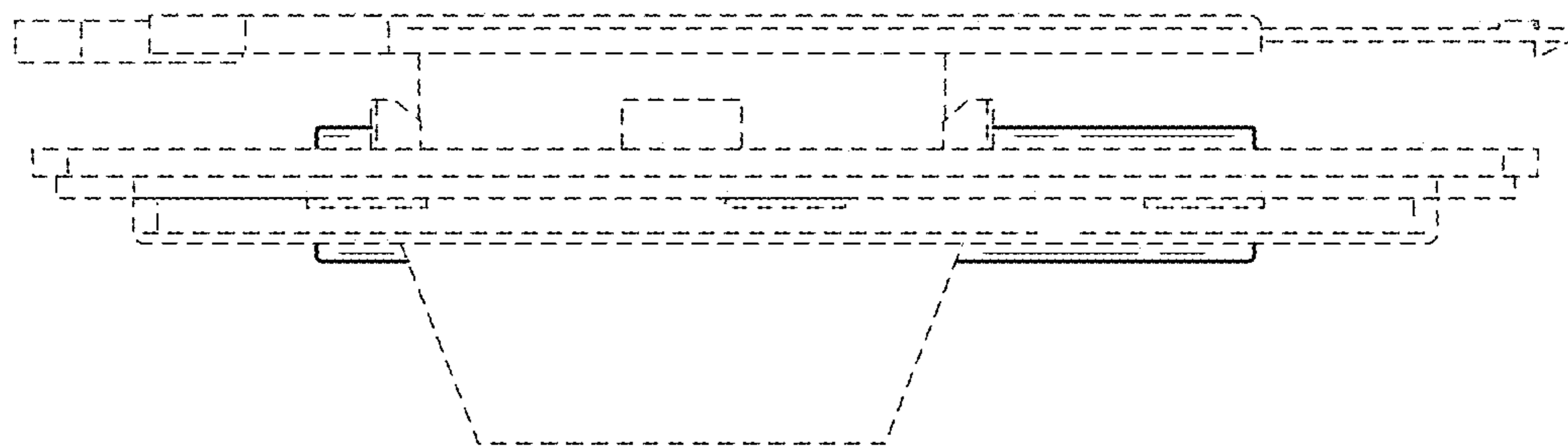


FIG. 20

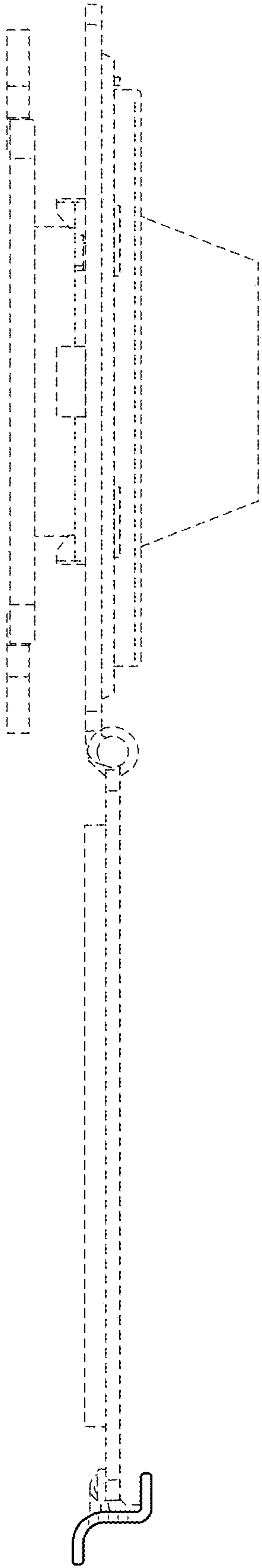


FIG. 22

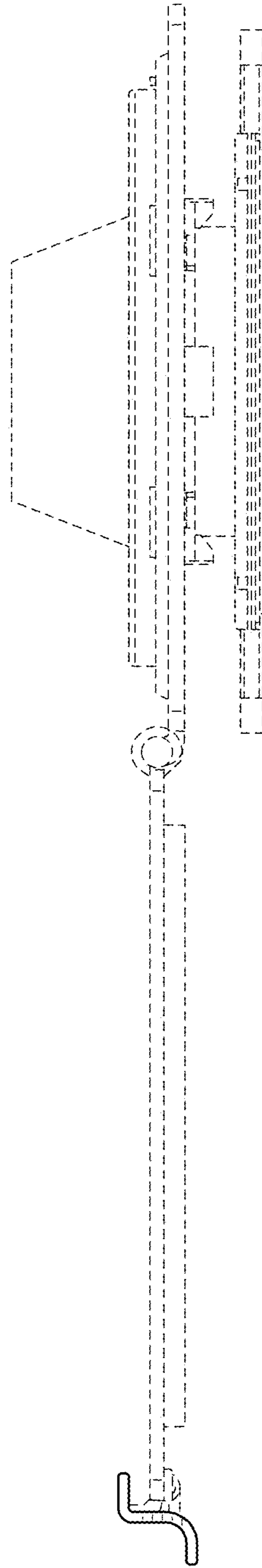


FIG. 23

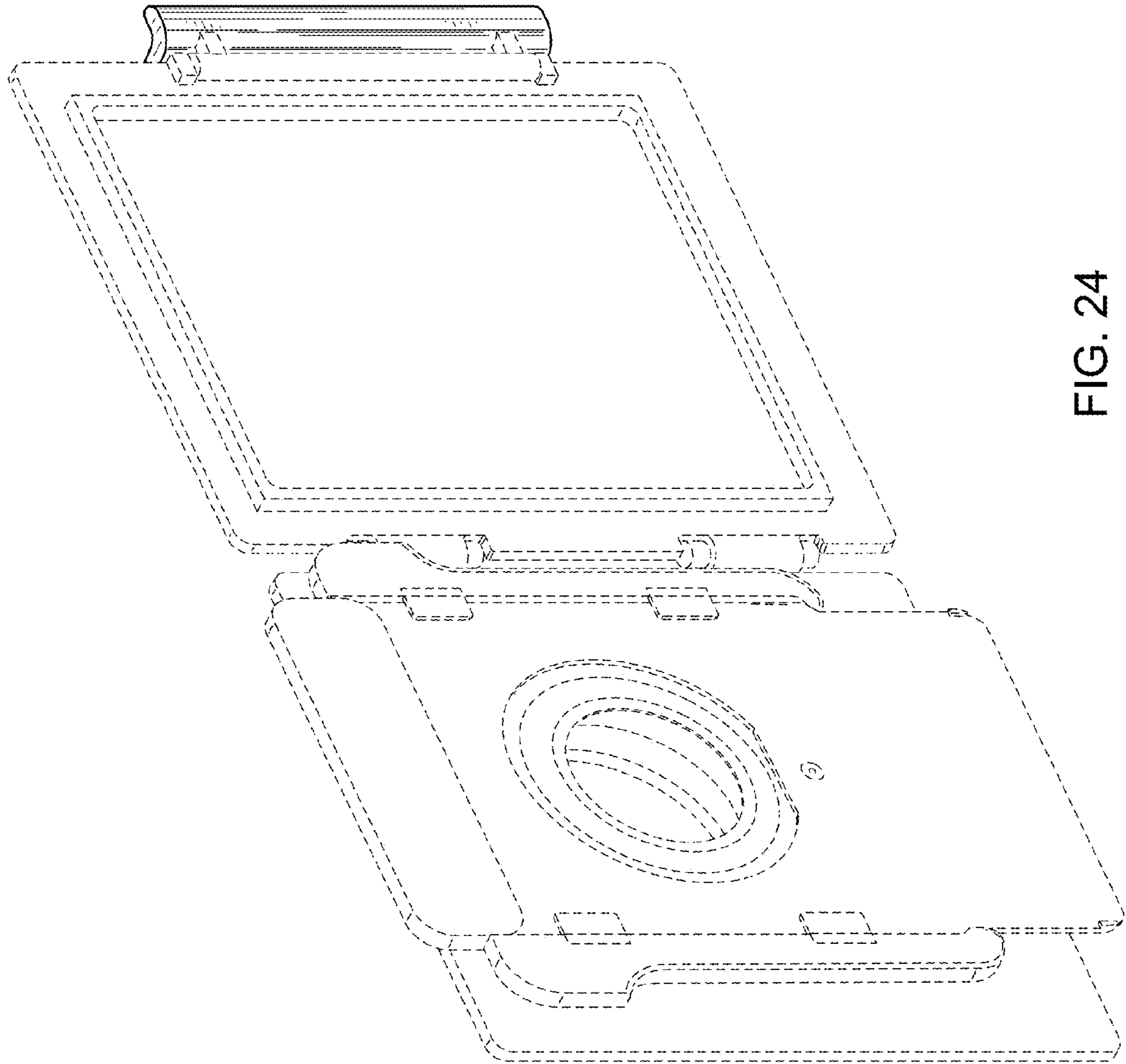


FIG. 24

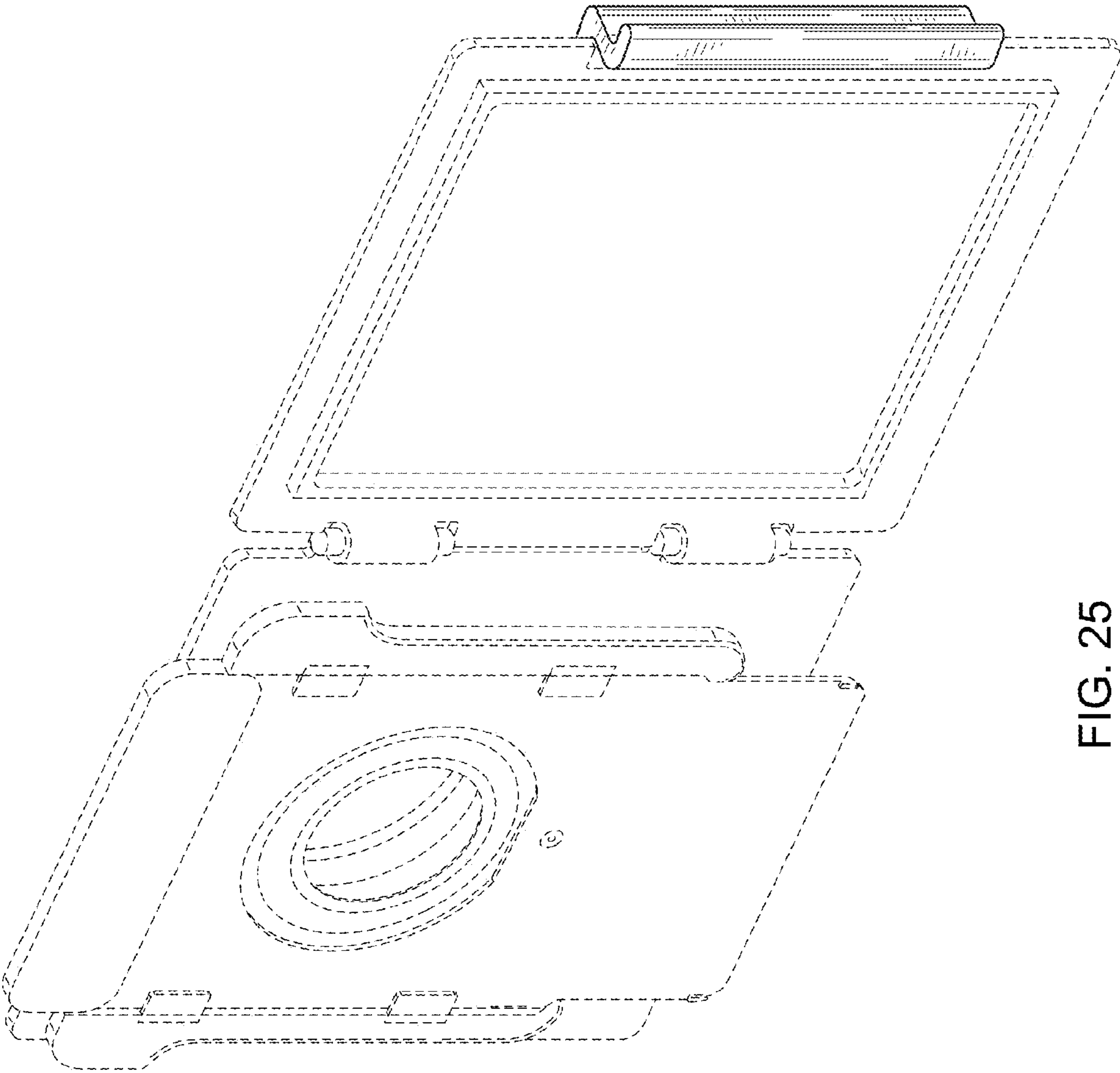


FIG. 25